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# **1** [Safety of datalog queries over infinite databases](#)



Y. Sagiv, M. Y. Vardi

March 1989 PODS '89: Proceedings of the eighth ACM SIGACT-SIGMOD-SIGART  
symposium on Principles of database systems

**Publisher:** ACM


Full text available: [pdf\(1.15  
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**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 25, Citation Count: 9

A query is safe with respect to a set of constraints if for every database that satisfies the constraints the query is guaranteed to yield a finite set of answers. We study here the safety problem for Datalog programs with respect to ...

## 2 On the equivalence of recursive and nonrecursive datalog programs

 Surajit Chaudhuri, Moshe Y. Vardi  
July 1992 PODS '92: Proceedings of the eleventh ACM SIGACT-SIGMOD-SIGART  
symposium on Principles of database systems

**Publisher:** ACM

Full text available:  [pdf\(980.01 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 25, Citation Count: 25

We study the problem of determining whether a given recursive Datalog program is equivalent to a given nonrecursive Datalog program. We prove triply exponential upper and lower time bounds.

## 3 The CORAL deductive system

Raghu Ramakrishnan, Divesh Srivastava, S. Sudarshan, Praveen Seshadri  
April 1994 The VLDB Journal — The International Journal on Very Large Data  
Bases, Volume 3 Issue 2

**Publisher:** Springer-Verlag New York, Inc.


Full text available:  [pdf\(3.03 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 43, Citation Count: 11


CORAL is a deductive system that supports a rich declarative language, and an interface to C++, which allows for a combination of declarative and imperative programming. A CORAL declarative program can be organized as a collection of interacting modules. ...

Keyw ords: deductive database, logic programming system, query language

## 4 An abstract machine for tabled execution of fixed-order stratified logic programs

 Konstantinos Sagonas, Terrance Swift  
May 1998 ACM Transactions on Programming Languages and Systems (TOPLAS),  
Volume 20 Issue 3

**Publisher:** ACM

Full text available:  [pdf\(602.38 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 31, Citation Count: 8

SLG resolution uses tabling to evaluate nonfloundering normal logic pr ograms according to the well-founded semantics. The SLG-WAM, which forms the engine of the XSB system, can compute in-memory recursive queries an order of magnitude faster ...

Keyw ords: SLG, WAM, memoing, prolog, stratification theories, tabling


## 5 Deductive database languages: problems and solutions



Mengchi Liu

March 1999 ACM Computing Surveys (CSUR), Volume 31 Issue 1

**Publisher:** ACM

Full text available:  pdf(254.50 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 24, Downloads (12 Months): 220, Citation Count: 8

Deductive databases result from the integration of relational database and logic programming techniques. However, significant problems remain inherent in this simple synthesis from the language point of view. In this paper, we discuss these problems ...

Keyw ords: complex object databases, deductive databases, inheritance, logic programming, nested relational databases, object-oriented databases


## 6 Parallelism in logic programs



Raghu Ramakrishnan

December 1989 POPL '90: Proceedings of the 17th ACM SIGPLAN-SIGACT symposium on Principles of programming languages

**Publisher:** ACM

Full text available:  pdf(1.76 MB) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 12, Citation Count: 1

## 7 Integrity Constraints Checking In Deductive Databases

Antoni Olivé

September 1991 VLDB '91: Proceedings of the 17th International Conference on Very Large Data Bases

**Publisher:** Morgan Kaufmann Publishers Inc.

Additional Information: [full citation](#), [references](#), [cited by](#)

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 7


## 8 Attribute agreement



Y. C. Tay

March 1989 PODS '89: Proceedings of the eighth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems

**Publisher:** ACM

Full text available:  [pdf\(683.13 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)


**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 13, Citation Count: 0

## 9 Updating knowledge bases while maintaining their consistency

Ernest Teniente, Antoni Olivé

April 1995 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 4 Issue 2

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  [pdf\(2.54 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

**Bibliometrics:** Downloads (6 Weeks): 0, Downloads (12 Months): 25, Citation Count: 7

When updating a knowledge base, several problems may arise. One of the most important problems is that of integrity constraints satisfaction. The classic approach to this problem has been to develop methods for *checking* whether a given update ...

Keyw ords: integrity checking, integrity maintenance, view updating

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